

**WHAT IS CLAIMED:**

1. A liner for a hypobarically-controlled socket for an artificial limb, the socket having a volume and shape to receive a substantial portion of an amputee's residual limb with a cavity therebetween, an inner wall, and a partial vacuum in the cavity tending to draw the residual limb into firm contact with the socket, the liner further comprising an adhering interface adapted to sealingly engage the inner wall of the socket, thereby making a seal between the residual limb and the socket to minimize air leakage into the cavity, wherein the adhering interface permanently attaches the liner to the inner wall of the socket.

2. The liner of claim 1, wherein the adhering interface comprises a laminating adhesive.

3. The liner of claim 1, wherein the adhering interface comprises contact cement.

4. The liner of claim 1, wherein the adhering interface comprises a paint-on glue.

5. The liner of claim 1, further comprising non-foamed, non-porous polyurethane.